



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

## NOTICE OF ACCEPTANCE (NOA)

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**SWISSPEARL / Cladding Corp.**  
215 South Highway 100, Suite 214  
Solana Beach, CA 92037

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: "SWISSPEARL Façade" Cement Composite Wall Panel System

**APPROVAL DOCUMENT:** Drawing No. C08-258, titled "Swisspearl Façade System Cement Composite Panel", sheets 1 through 31 of 31, prepared by CBuck Engineering, dated April 09, 2009, Revision #4, signed and sealed by James L. Buckner, P.E., on April 22, 2014 bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 09-0115.05 and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



*Helmy A. Makar*  
09/11/2014

NOA No. 14-0605.07  
Expiration Date: 04/22/2019  
Approval Date: 09/11/2014  
Page 1

**SWISSPEARL / Cladding Corp.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0115.05**

**A. DRAWINGS**

1. *Drawing No. C08-258, titled "Swisspearl Façade System Cement Composite Panel", sheets 1 through 31 of 31, prepared by CBuck Engineering, dated April 09, 2009, signed and sealed by James L. Buckner, P.E., on April 10, 2009.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on Swisspearl Fiber-Cement Façade Panel System, prepared by Architectural Testing, Report No. 77956.01-109-18, dated 12/18/2008, signed and sealed by Michael D. Stremmel, P.E.*

**C. CALCULATIONS**

1. *Calculations titled "Eternit Wall Panel System", dated March 09, 2009, 9 pages, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E., on March 09, 2009.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. C08-258, titled "Swisspearl Façade System Cement Composite Panel", sheets 1 through 31 of 31, prepared by CBuck Engineering, dated April 09, 2009, Revision #4, signed and sealed by James L. Buckner, P.E., on April 22, 2014.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

  
Henry A. Makar, P.E., M.S.

Product Control Unit Supervisor

NOA No. 14-0605.07

Expiration Date: 04/22/2019

Approval Date: 09/11/2014

**Engineering Report & Drawings**  
*of*  
**SWISSPEARL® /**  
**Cladding Corp.**  
**Façade System**

*For*

**Miami-Dade Notice of Acceptance**

**Category: Panels**  
**Sub - Category: Wall**

**System Support Type C(1): CMU Concrete Block Wall**  
**System Support Type S(1): Vertical Steel Support**

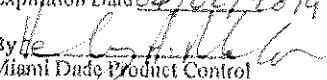
**Product:** SWISSPEARL® Façade System  
**Covering Material:** Cement Composite Panel  
**Frame Material:** Steel  
**Panel Dimensions:** 48" x 119-5/8"

**SWISSPEARL®**  
**Cladding Corp.**

215 South Highway 100, Suite 214  
Solana Beach, CA 92037

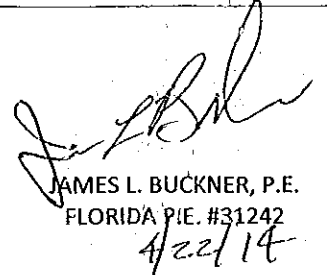

**Prepared by:**

James L. Buckner, P.E., SECB  
Florida Professional Engineer # 31242  
Project Manager: Youry Demosthenes  
Report No.: 08-258  
Date: 12 / 03 / 08  
Revised Date: 04 / 02 / 14

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0605.07  
Expiration Date 04/22/2019  
By   
Miami Dade Product Control

Contents:

Cover Page	Page 1
System Support Type C(1)	Page 2-16
System Support Type S(1)	Page 17-31

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM COVER PAGE		ETERNIT (SCHWEIZ) AG	
	 CBUCK Engineering CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04 / 09 / 09	
			PAGE #: 1 OF 31	
			REPORT #: C08-258	
			DRAWN BY: YD	
		REV: 4		

## 0.0 System Support Type C(1): CMU Concrete Block Wall

### 1.0 Product

- 1.1 Manufacturer Eternit (Schweiz) AG
- 1.2 Product Name SWISSPEARL® Façade System
- 1.3 Category Panels
- 1.4 Sub Category Walls

### 2.0 Evaluation Scope:

#### 2.1 Evaluation Criteria:

- 2.1.1 Florida Building Code (FBC) 2010  
Code Section: High Velocity Hurricane Zone (HVHZ)
- 2.1.2 Miami-Dade Building Code Compliance Office (BCCO) Checklist

#### 2.2 Properties Evaluated:

- 2.2.1 Wind Resistance Properties
  - 2.2.1.1 Uniform Static Air Pressure
  - 2.2.1.2 Large Missile Impact
  - 2.2.1.3 Cyclic Wind Pressure
- 2.2.2 Fire Resistance Properties
- 2.2.3 Panel Material Properties

#### 2.3 Limits of Evaluation:

This product is limited to compliance with the criteria in section 2.1 and properties in section 2.2 of this report.

### 3.0 Evaluated Uses:

SWISSPEARL Wall Panels are used as nonbearing exterior (façade) wall panels.

### 4.0 Support: The Support assembly is designed by others and shall have the following minimum Characteristics:

- 4.1 Material: CMU Concrete Block
- 4.2 Filler: Grout Filled

### 5.0 Product Description:

#### 5.1 General:

The SWISSPEARL cement composite façade wall panels are riveted to a steel sub-frame.  
The steel sub-frame is fastened into the CMU Concrete Block support Wall.

#### 5.2 Panel Dimensions:

- 5.2.1 Length (Maximum): 9 ft 11-5/8 in (3040 mm)
- 5.2.2 Width (Maximum): 4 ft (1220 mm)
- 5.2.3 Thickness: 5/16 in (8 mm)

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[Signature]  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/14

#### TITLE: SWISSPEARL FAÇADE SYSTEM PRODUCT DETAILS

CBUCK Engineering  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

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## 6.0 Performance

### 6.1 Wind Resistance:

6.1.1 Design Pressure:      Positive      +63 psf (+ 3 kPa.)  
   Negative      -63 psf (- 3 kPa.)

Span:                              14.5" o.c.      (368 mm)  
Span Condition:              3 or more spans

### 6.1.2 Uniform Static Air Pressure Test:

6.1.2.1 Standard                      TAS 203

6.1.2.2 Results:                      Pass

### 6.1.3 Cyclic Air Pressure Test

6.1.3.1 Standard:                      TAS 202

6.1.3.2 Results:                      Pass

### 6.2 Impact Rating:

6.2.1 Large Missile Impact :

6.2.2 Standard:                      TAS 201

6.2.3 Results                              Passed

6.2.4 Test Laboratory:              Architectural Testing Institute

### 6.3 Fire Resistance

6.3.1 Test Standard:              ASTM E – 84 / ASTM E – 136

6.3.2 Results:                              Flame Spread:      0  
   Smoke Density:      15

### 6.4 Panel Material Properties

6.4.1 Test Standard:              ASTM C1185 – 95

6.4.2 Results                              Passed

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Miami Dade Product Control

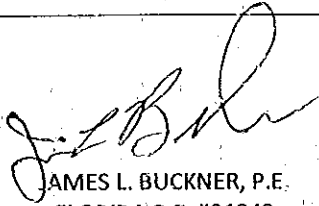

### 7.0 Limitations of Use:

7.1 Maximum Panel span 14.5 in.

7.2 Maximum Panel Deflection shall be L/180.

7.3 Diaphragm and axial load capacity is outside the scope of this evaluation.

7.4 This evaluation is limited to the wall panel, the vertical and horizontal hat and Zee channels, and the fasteners. The structural properties of all other structural items are outside the scope of this evaluation and should be reviewed by the structural plans examiner of the requisite building department.

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM PERFORMANCE		
	 CBUCK Engineering CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04/09/09
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## 8.0 Code Compliance

8.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 2010 for the properties evaluated.

## 9.0 Identification:

9.1 Each Panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state and the statement reading "Miami-Dade County Product Control Approved" is to be located on each panel.

## 10.0 Installation:

1. The Horizontal Zee Channels are spaced 34-3/4 in o.c vertically on the wall. These are fastened to the CMU support at 16 in o.c. (Drawing Page 8) using designated Fastener (section 11.2)
2. Vertical Hat Channels are spaced 10 ft on center (Drawing Page 9). They are fastened at the horizontal Zee channels (34-3/4 in o.c.) using designated fastener (section 11.3).
3. Vertical Zee Channels are fastened to the Horizontal Zee Channels between the Hat Channels at 14.5 in o.c. (See Drawing Page 9). These are fastened at the horizontal Zee channels (34-3/4 in o.c.) using designated fastener (section 11.3).
4. SWISSPEARL cement composite panels are fastened to the vertical hats channels (at each end) and vertical Zee channels spaced between the hat channels (Drawing Page 10). These are fastened to each support nominally 14.5 in o.c in the horizontal direction, and nominally 8 in o.c. in the vertical direction.

## 11.0 Components

### 11.1 Panel:

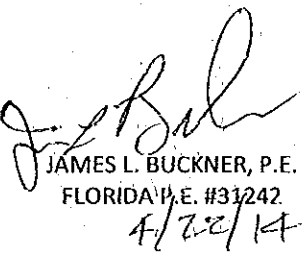
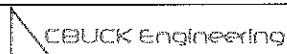
11.1.1 Material Fiber Reinforced Concrete  
11.1.2 Thickness: 5/16 in (8 mm)

### 11.2 Fasteners:

Fastens the horizontal Zee's to the CMU block support system

11.2.1 Manufacturer: Tapcon  
11.2.2 Type: Masonry Fastener  
11.2.3 Size: 1/4 in - 14  
11.2.4 Imbedment: 1-3/4" Minimum  
11.2.5 Edge Distance: 1-1/4" Minimum  
11.2.6 Head: Hex head  
11.2.7 Corrosion Resistance: Stainless Steel

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 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM LIMITS OF USE, IDENTIFICATION AND INSTALLATION INSTRUCTIONS		
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04/09/09
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### 11.3 Fasteners:

Fastens the vertical Hats and Zee's to the horizontal Zee's.

Fastens the cement composite panel to the steel vertical Hats and Zee's.

- 11.3.1 Manufacturer: SFS
- 11.3.2 Type: Rivets
- 11.3.3 Designation: SSO-D15
- 11.3.4 Size : 4.0 x 18 mm
- 11.3.5 Corrosion Resistance: Stainless Steel
- 11.3.6 Vertical fastener spacing: 8 in o.c. Maximum
- 11.3.7 Horizontal fastener spacing: 16 in o.c. Maximum

### 11.4 Horizontal Supports

Zee channel that is fastened to the steel support. The Vertical Hats and Zee channels are attached to this.

- 11.4.1 Type: Zee Channel
- 11.4.2 Width: 3-1/8 in.
- 11.4.3 Height: 1-9/16 in.
- 11.4.4 Thickness : 16 Gauge
- 11.4.5 Material: Steel
- 11.4.6 Corrosion Resistance: Galvanized G90
- 11.4.7 Spacing: 34-3/4 in o.c.

### 11.5 Vertical Supports:

Hat channel that is fastened to the Horizontal Zee channel. The cement composite panels are fastened to this support.

- 11.5.1 Type: Hat Channel
- 11.5.2 Width: 5-1/2 in
- 11.5.3 Height: 1-1/2 in
- 11.5.4 Thickness: 16 Gauge
- 11.5.5 Material: Steel
- 11.5.6 Corrosion Resistance: Galvanized G90
- 11.5.7 Spacing: 9 ft 11-5/8 in o.c. (at panel joints)

Zee channel that is fastened to the Horizontal Zee channel. The cement composite panels are fastened to this support.

- 11.5.8 Type: Zee Channel
- 11.5.9 Width: 3-1/8 in.
- 11.5.10 Height: 1-9/16 in.
- 11.5.11 Thickness: 16 Gauge
- 11.5.12 Material: Steel
- 11.5.13 Corrosion Resistance: Galvanized G90
- 11.5.14 Spacing: 14-1/2 in o.c.

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TITLE: SWISSPEARL FAÇADE SYSTEM

MATERIAL SPECIFICATIONS AND COMPONENT DESCRIPTION

*[Signature]* CBUCK Engineering

CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

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*[Signature]*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/14

### 11.6 Ventilation profile (Optional):

Perforated L piece that goes in multiple edge locations.

11.6.1 Length: 98.5 in.  
11.6.2 Width: 3-1/8 in.  
11.6.3 Height: 1-9/16 in.  
11.6.4 Thickness: 0.027 in  
11.6.5 Material: Aluminum

### 11.7 L-Flashing (Optional):

Perforated L piece that goes in multiple edge locations.

11.7.1 Length: 98.5 in.  
11.7.2 Width: 3-1/8 in.  
11.7.3 Height: 1-9/16 in.  
11.7.4 Thickness: 0.027 in  
11.7.5 Material: Stainless Steel

### 12.0 Reference Data:

#### 12.1 Structural Performance

12.1.1 TAS 201, 202 & 203, Large Missile Impact Test, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test. & Cyclic Wind Pressure Loading, respectively.  
By: Architectural Testing, Inc. Report No.: 77956.01-109-18  
Dated: 4/7/08 Revised Date: 12/08/08

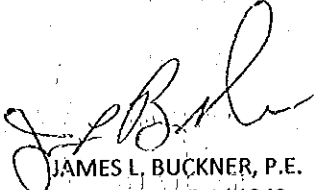

#### 12.2 Fire Performance

12.2.1 ASTM E-84 & ASTM E-136 Flame Spread Index /Smoke Density  
By: Architectural Testing, Inc. (SGS U.S.) Report No.: 170982  
Dated: 11/20/02

#### 12.3 Material properties

12.3.1 ASTM C 1185-95 Test Specification for Non-Asbestos fiber-Cement Flat Sheet, roofing and Siding Shingles, and Clapboards  
By: Architectural Testing, Inc. Report No.: 01.42233.01  
Dated: 11/20/02

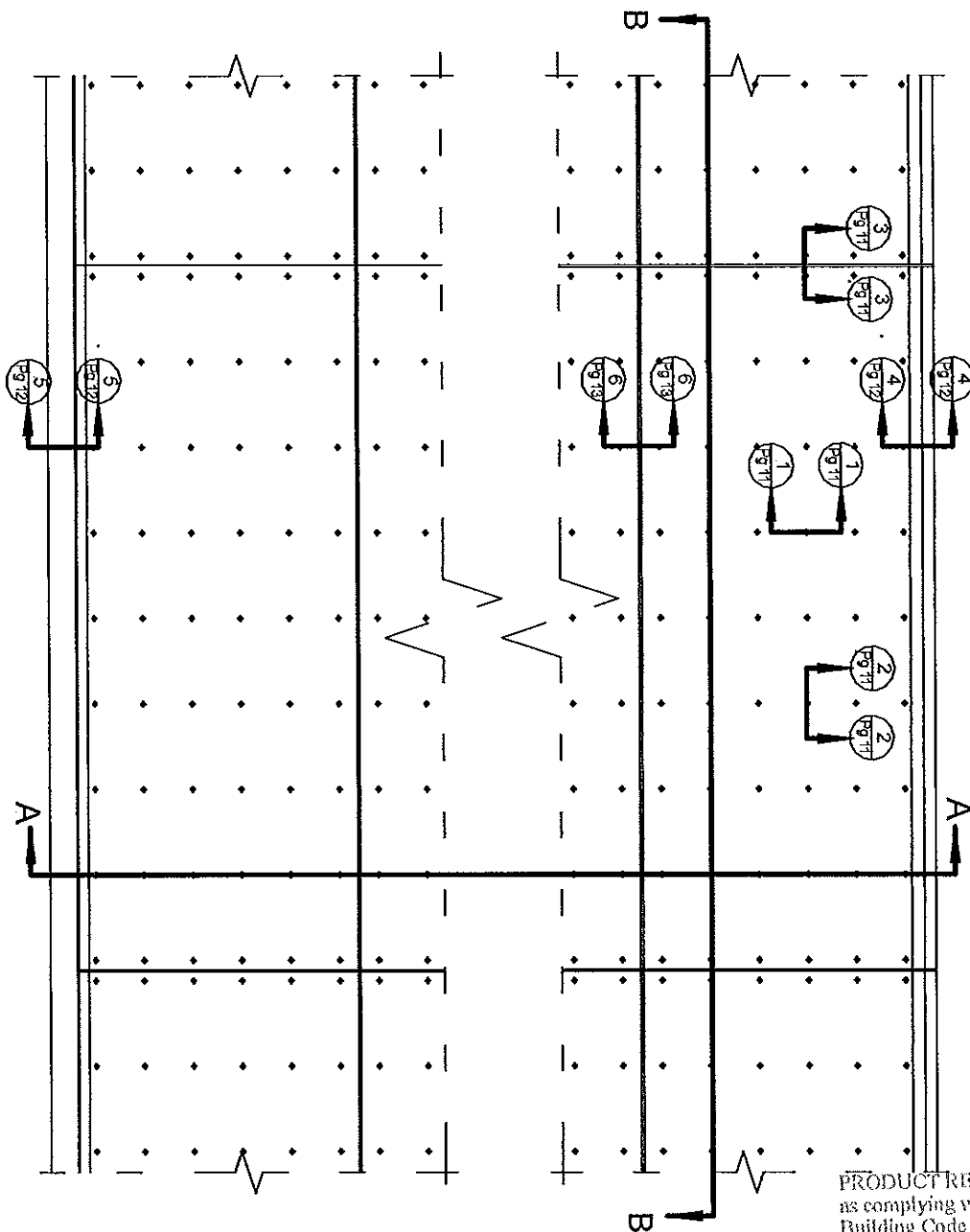
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Miami Data Product Control

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	MATERIAL SPECIFICATIONS AND COMPONENT DESCRIPTION		
	 CBUCK Engineering COA #8064 CBUCK, Inc. 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04/09/09
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# Swisspearl Panel System

Outside Elevation Drawing



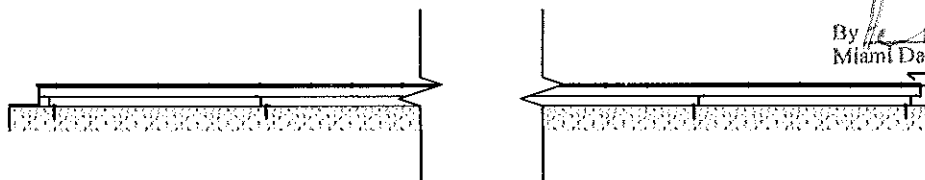
B-B Horizontal Section

A

B

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A-A Vertical Section



TITLE: SWISSPEARL FAÇADE SYSTEM  
ELEVATION

CBUCK Engineering

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1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
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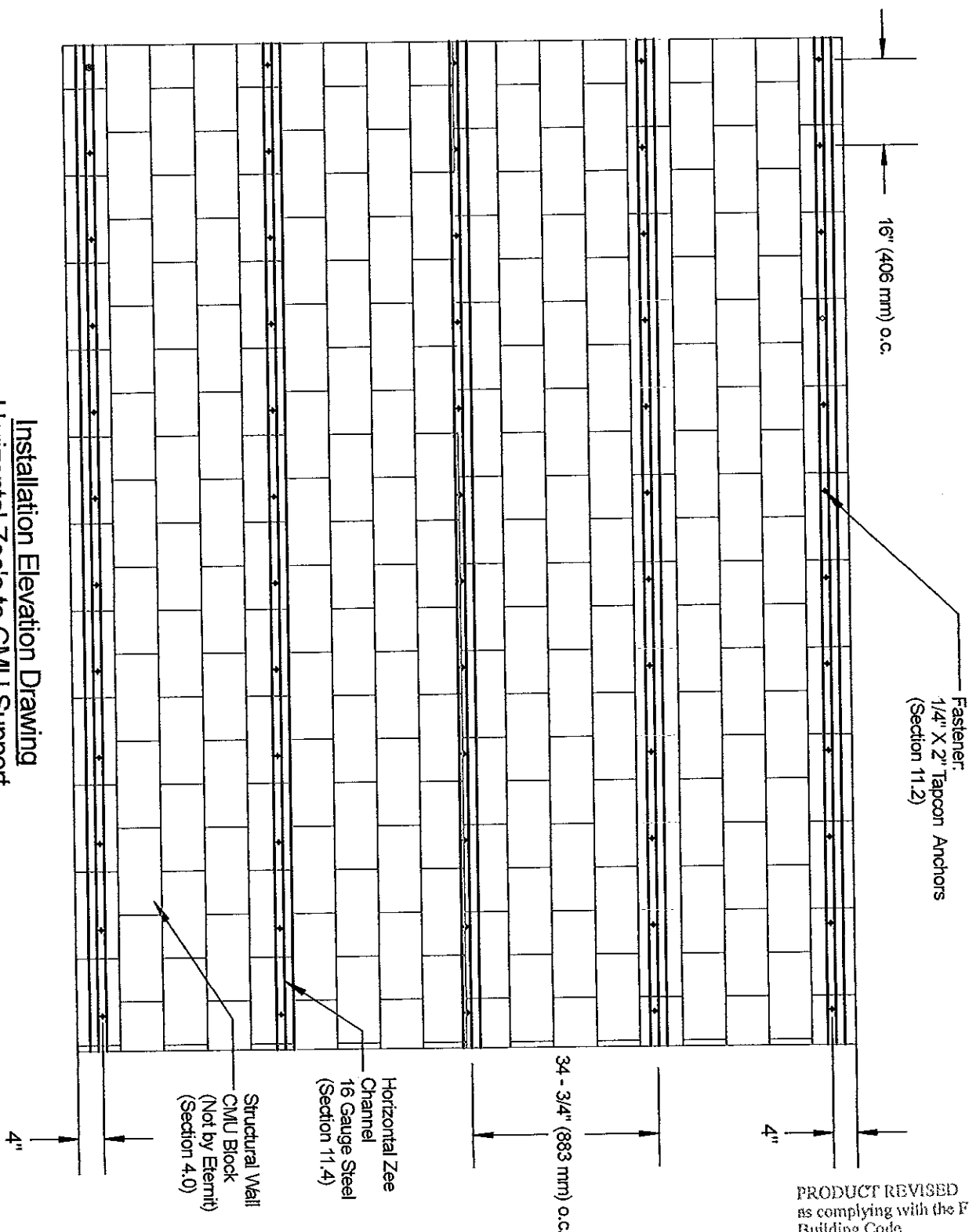
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4/22/14

Installation Elevation Drawing  
Horizontal Zee's to CMU Support



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Expiration Date 04/22/2019

By *[Signature]*  
Miami Dade Product Control

TITLE: SWISSPEARL FAÇADE SYSTEM  
HORIZONTAL ZEE'S ATTACHED TO CMU SUPPORT WALL

*[Signature]*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/14

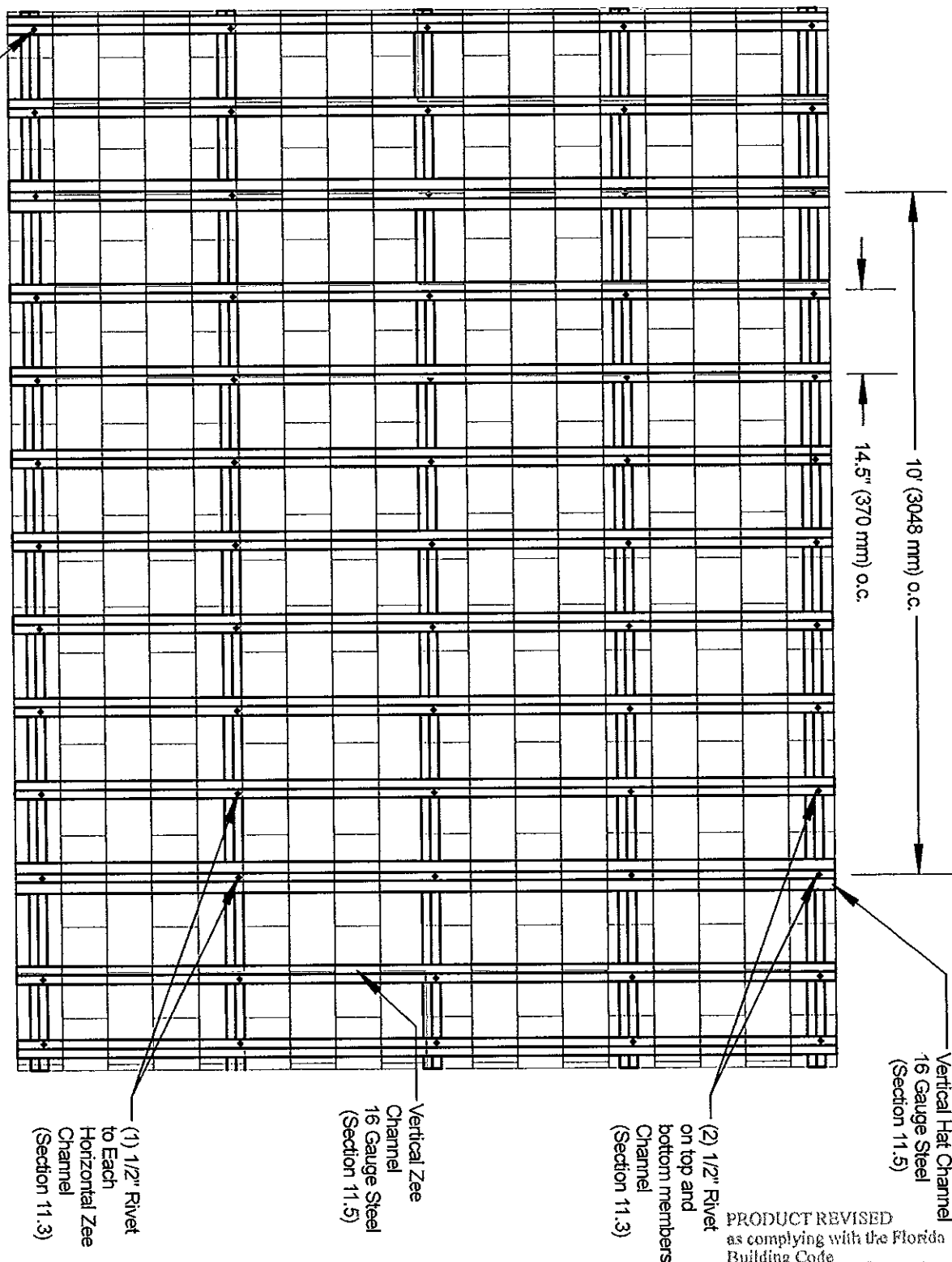
CBUCK Engineering  
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Fastener:  
Rivet:  
SFS SSO-D15 4.0 x 18mm  
(Section 11.3)

# Installation Elevation Drawing Vertical Hat's and Zee's to Horizontal Zee's



(1) 1/2" Rivet  
to Each  
Horizontal Zee  
Channel  
(Section 11.3)

Vertical Zee  
Channel  
16 Gauge Steel  
(Section 11.5)

(2) 1/2" Rivet  
on top and  
bottom members  
Channel  
(Section 11.3)

Vertical Hat Channel  
16 Gauge Steel  
(Section 11.5)

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Acceptance No 14-0605.07  
Expiration Date 04/22/2019

By *[Signature]*  
Miami Date Product Control

## TITLE: SWISSPEARL FAÇADE SYSTEM VERTICAL ZEE'S AND HATS TO HORIZONTAL ZEE'S

*[CBUCK Engineering Logo]* CBUCK Engineering

CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

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DRAWN BY: YD

REV: 4

*[Signature]*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/19

**Installation Elevation Drawing**  
**SWISSPEARL Panel to**  
**Vertical Hat's and Zee's**

Fastener:  
 Rivet (5/8")  
 SFS SSO-D15 4.0 x 18mm  
 (Section 11.3)

- Rivet Located:  
 1-1/2" from left & right edges  
 and spaced 14-1/2" o.c.  
 3" from the top and bottom edges  
 and spaced 8" o.c.

1/2" nominal  
 space between  
 panels

8 1/4" (212 mm) o.c.  
 Typical

4" (1220 mm)  
 Panel Width

SWISSPEARL Panel  
 (Section 5.2 & 11.1)

9' 11-5/8" (3040 mm) Panel Length

Panel size 9' 11-5/8" x 4'  
 Maximum

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 Expiration Date 04/22/2019  
 By *Heidi A. Martin*  
 Miami Data Product Control

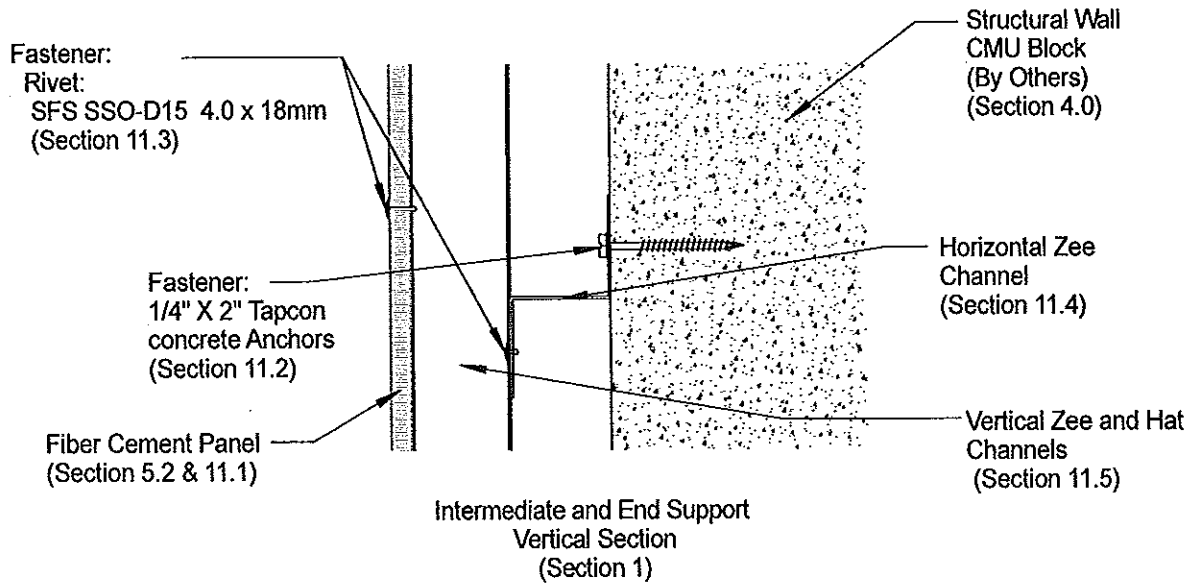
**TITLE: SWISSPEARL FAÇADE SYSTEM**  
**FIBER CEMENT PANELS ATTACHED TO VERTICAL MEMBERS**

**CBUCK Engineering**  
 CBUCK, Inc. COA #8064  
 1399 N. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

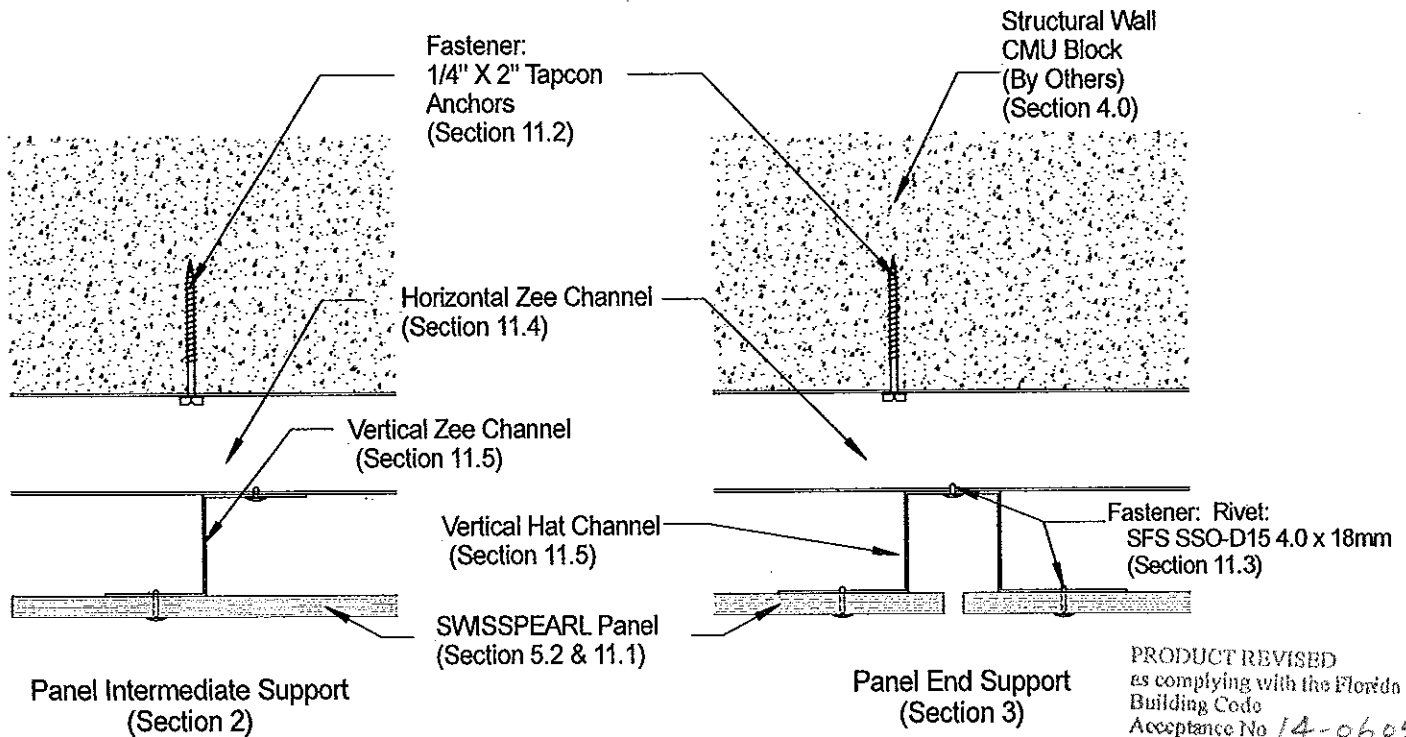
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**REPORT #:** C08-258-C(1)  
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*J. L. Buckner*  
**JAMES L. BUCKNER, P.E.**  
 FLORIDA P.E. #31242  
 4/22/14



SIDE SECTION VIEW



PLAN SECTION VIEW

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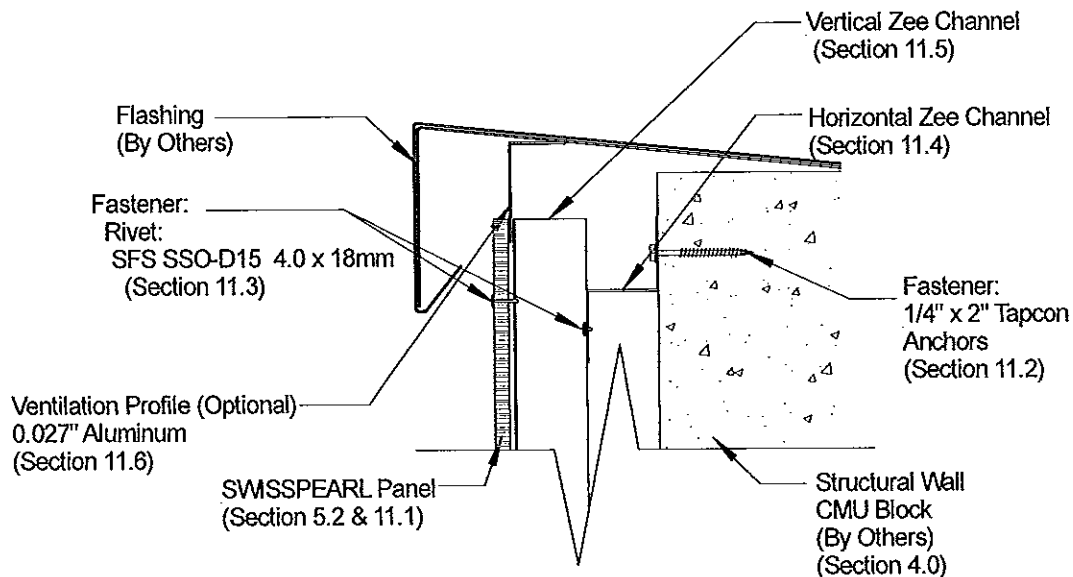
*[Signature]*  
JAMES L. BUCKNER, P.E.  
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4/22/14

TITLE: SWISSPEARL FAÇADE SYSTEM  
INTERMEDIATE AND END JOINTS

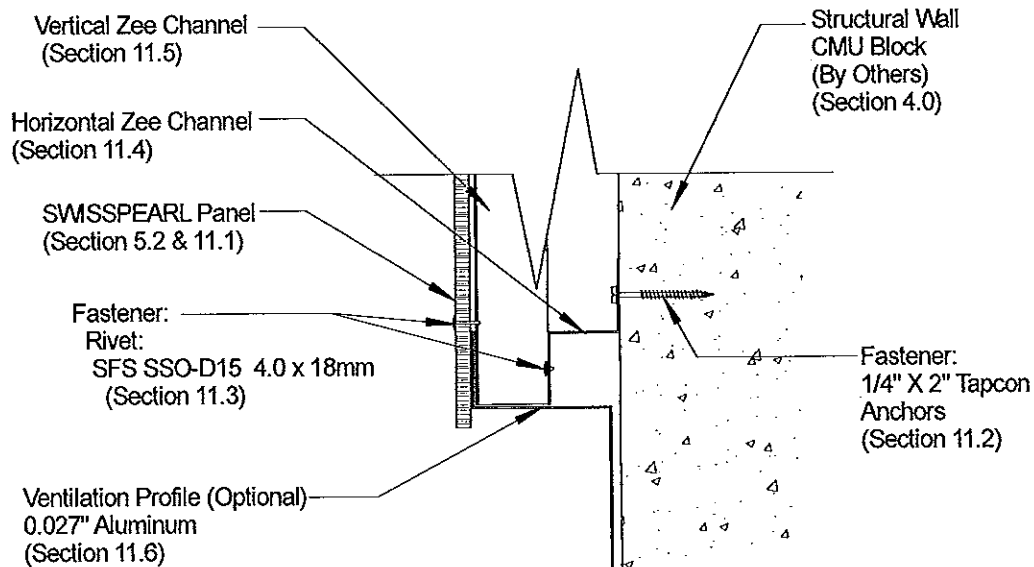
*[Logo]* CBUCK Engineering  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
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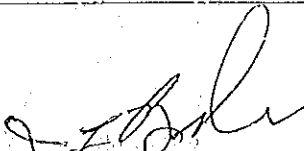
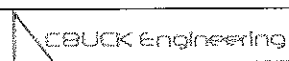


Typical Top Termination Section  
(Section 4)



Typical Bottom Termination Section  
(Section 5)

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Miami Dade Product Control

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM BASE AND TOP DETAILS			
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR:  Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04/09/09	
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Fastener:  
Rivet:  
SFS SSO-D15 4.0 x 18mm  
(Section 11.2)

L Flashing  
Stainless Steel  
(Section 11.7)

DISTANCE 1/4" (6 mm) Min.

SWISSPEARL Panel  
(Section 5.2 & 11.1)

Structural Wall  
CMU Block  
(By Others)  
(Section 4.0)

Vertical Zee and Hat  
Channels  
(Section 11.5)

Horizontal Zee  
Channel  
(Section 11.4)

Fastener:  
1/4" X 2" Tapcon  
Anchors  
(Section 11.2)

Horizontal Joint  
Vertical Section  
(Section 6)

SIDE SECTION VIEW

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TITLE: SWISSPEARL FAÇADE SYSTEM  
HORIZONTAL JOINT DETAIL

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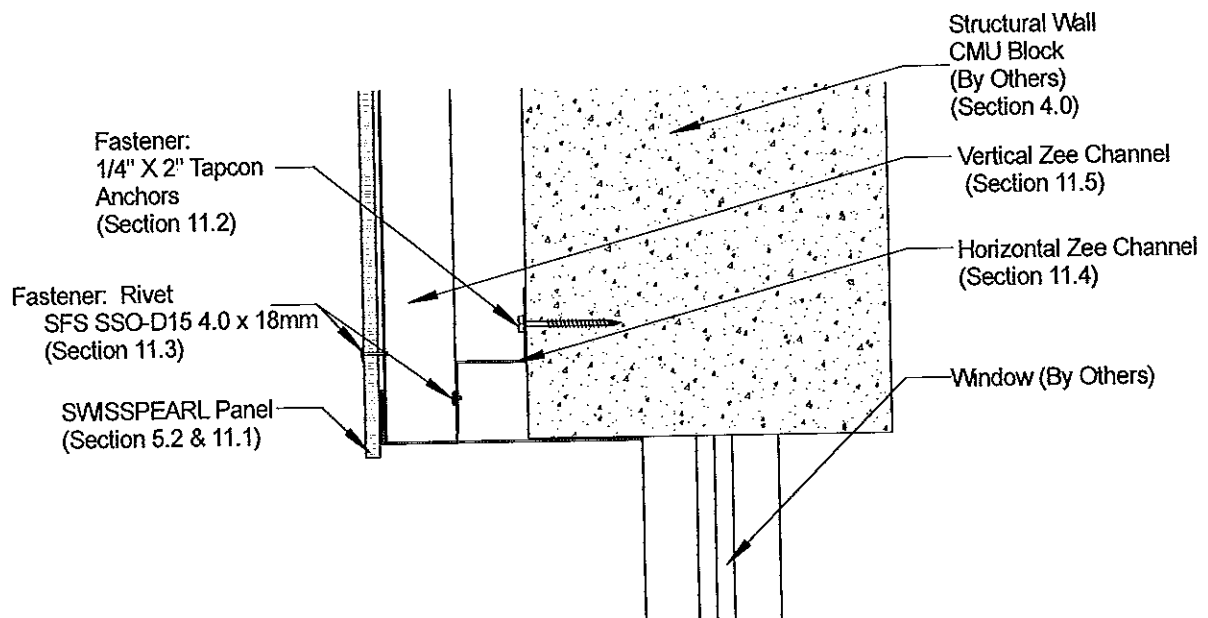
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REPORT #: C08-258-C(1)

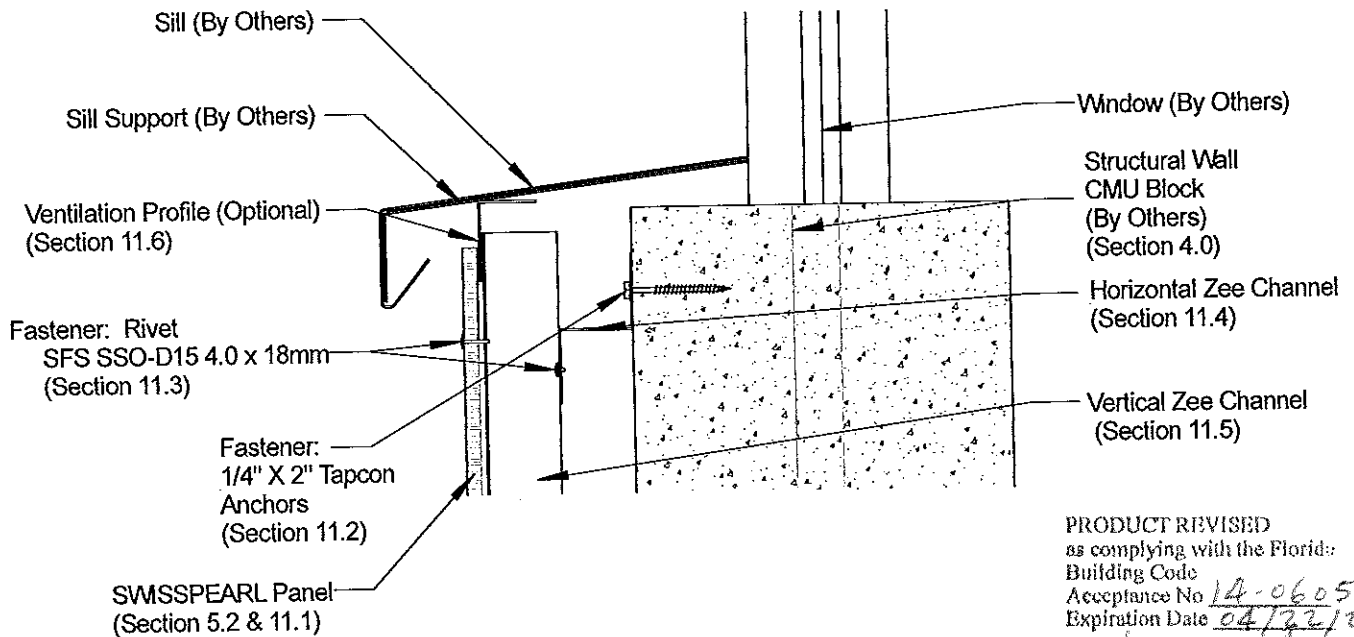
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Typical Window Head Section



Typical Window Sill Section

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FLORIDA P.E. #31242  
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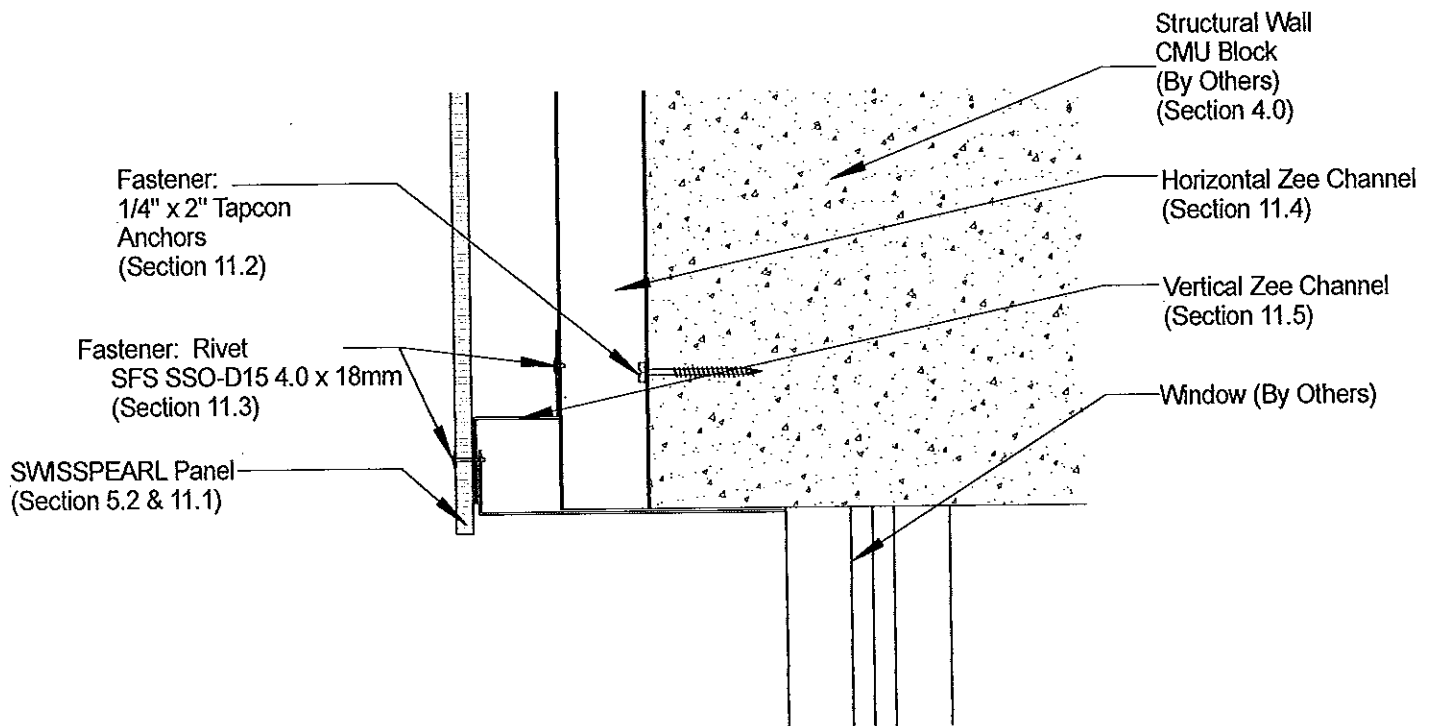
TITLE: SWISSPEARL FAÇADE SYSTEM  
WINDOW, SEAL AND HEAD DETAILS

*[CBUCK Engineering Logo]*  
CBUCK Engineering  
CBUCK, Inc. COA #8064  
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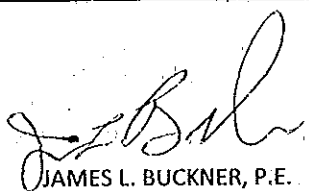
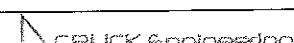
DATE:	04 / 09 / 09
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REPORT #:	C08-258-C(1)
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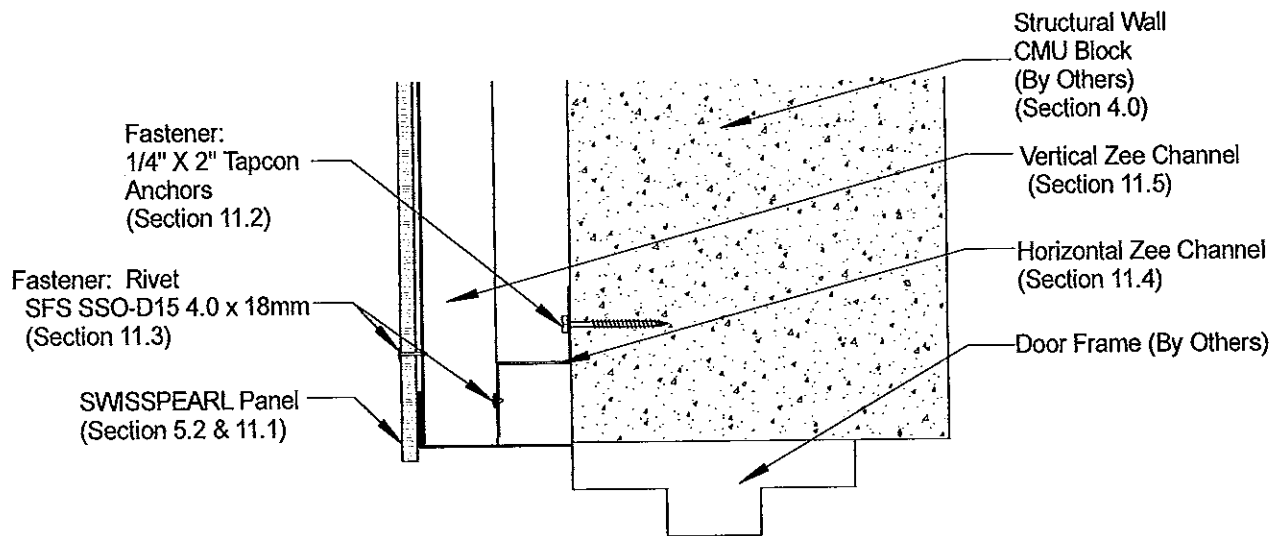




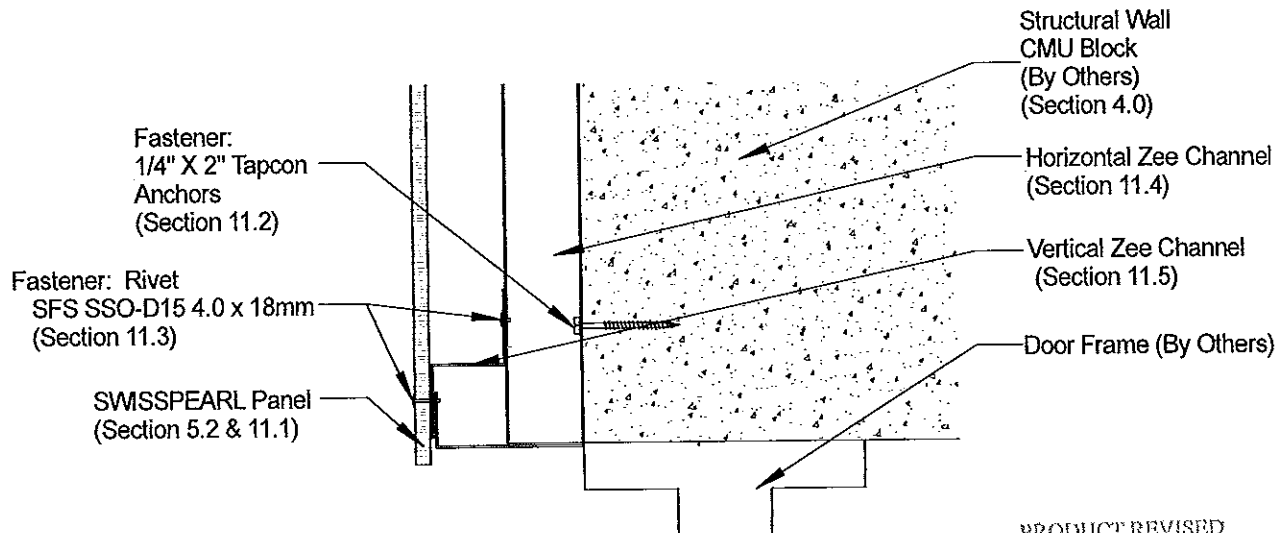
Typical Window Jam Section

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Expiration Date 04/02/2019  
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	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR:  Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04 / 09 / 09
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Typical Door Head Section



Typical Door Jam Section

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[Signature]  
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4/22/14

TITLE: SWISSPEARL FAÇADE SYSTEM  
DOOR HEAD AND JAMB DETAILS

[Logo] CBUCK Engineering  
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## 0.0 System Support Type S(1): *Vertical Steel Support*

### 1.0 Product

- 1.1 Manufacturer Eternit (Schweiz) AG
- 1.2 Product Name *SWISSPEARL® Façade System*
- 1.3 Category Panels
- 1.4 Sub Category Walls

### 2.0 Evaluation Scope:

#### 2.1 Evaluation Criteria:

- 2.1.1 Florida Building Code (FBC) 2010  
Code Section: High Velocity Hurricane Zone (HVHZ)
- 2.1.2 Miami-Dade Building Code Compliance Office (BCCO) Checklist

#### 2.2 Properties Evaluated:

- 2.2.1 Wind Resistance Properties
  - 2.2.1.1 Uniform Static Air Pressure
  - 2.2.1.2 Large Missile Impact
  - 2.2.1.3 Cyclic Wind Pressure
- 2.2.2 Fire Resistance Properties
- 2.2.3 Panel Material Properties

#### 2.3 Limits of Evaluation:

This product is limited to compliance with the criteria in section 2.1 and properties in section 2.2 of this report.

### 3.0 Evaluated Uses:

SWISSPEARL Wall Panels are used as nonbearing exterior (façade) wall panels.

### 4.0 Support: The Support assembly is designed by others and shall have the following minimum Characteristics:

#### 4.1 Studs

- 4.1.1 Material: Steel
- 4.1.2 Thickness: 16 Ga. (0.062 in)
- 4.1.3 Face Width: 2 – 1/4 in Minimum
- 4.1.4 Spacing: 16 in Maximum

#### 4.2 Sheathing


- 4.2.1 Material: DensGlass
- 4.2.2 Thickness: 1/2 in

#### 4.3 Sheathing Fasteners

- 4.3.1 Type: Hex Head Screws, Self Tapping
- 4.3.2 Size: #6 x 1- 1/2 in
- 4.3.3 Corrosion Resistance: 304 Stainless Steel
- 4.3.4 Fastener spacing: 8 in o.c. at each stud

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#### TITLE: SWISSPEARL FAÇADE SYSTEM PRODUCT DETAILS

 CBUCK Engineering

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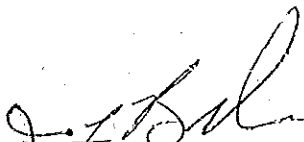
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JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/14

## 5.0 Description:

### 5.1 General:

The SWISSPEARL cement composite façade wall panels are riveted to a steel sub-frame. The steel sub-frame is fastened into the Steel stud support Wall.

### 5.2 Panel Dimensions:

5.2.1	Length (Maximum):	9 ft 11-5/8in	(3040 mm)
5.2.2	Width (Maximum):	4 ft	(1220 mm)
5.2.3	Thickness:	5/16 in	(8 mm)

## 6.0 Performance

### 6.1 Wind Resistance:

6.1.1	Design Pressure:	Positive	+63 psf (+ 3 kPa.)
		Negative	-63 psf (- 3 kPa. )

Span:	14.5" o.c.	(386 mm)
Span Condition:	3 or more spans	

#### 6.1.2 Uniform Static Air Pressure Test:

6.1.2.1	Standard	TAS 203
6.1.2.2	Results:	Pass

#### 6.1.3 Cyclic Air Pressure Test

6.1.3.1	Standard:	TAS 202
6.1.3.2	Results:	Pass

### 6.2 Impact Rating:

6.2.1	Large Missile Impact:	
6.2.2	Standard:	TAS 201
6.2.3	Results	Passed

### 6.3 Fire Resistance

6.3.1	Test Standard:	ASTM E - 84 / ASTM E - 136	
5.2.4	Results:	Flame Spread:	0
		Smoke Density:	15

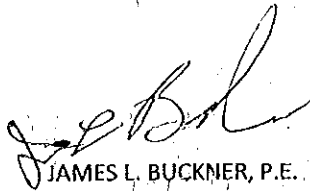
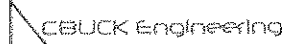
### 6.4 Panel Material Properties

6.4.1	Test Standard:	ASTM C1185 - 95
6.4.2	Results:	Passed

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### 7.0 Limitations of Use:

- 7.1 Maximum Panel span 14.5 in.
- 7.2 Maximum Panel Deflection shall be L/180.
- 7.3 Diaphragm and axial load capacity is outside the scope of this evaluation.
- 7.4 This evaluation is limited to the wall panel, the vertical and horizontal hat and Zee channels, and the fasteners. The structural properties of all other structural items (beams, columns, purlins, fascia supports etc.) are outside the scope of this evaluation and should be reviewed by the structural plans examiner of the requisite building department.

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM PERFORMANCE		
	 CBUCK Engineering CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04 / 09 / 09
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## 8.0 Code Compliance

8.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 2010 for the properties evaluated.

## 9.0 Identification:

9.1 Each Panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state and the statement reading "Miami-Dade County Product Control Approved" is to be located on each panel.

## 10.0 Installation:

1. The Horizontal Zee Channels are spaced 34-3/4 in o.c vertically on the wall. These are fastened to the Steel support at each stud (16 in o.c.) (Drawing Page 23) through the DensGlass using designated Fastener (section 11.2).
2. Vertical Hat Channels are spaced 10 ft on center (Drawing Page 24). They are fastened at the horizontal Zee channels (34-3/4 in o.c.) using designated fastener (section 11.3).
3. Vertical Zee Channels are fastened to the Horizontal Zee Channels between the Hat Channels at 14.5 in o.c. (See Drawing Page 24). These are fastened at the horizontal Zee channels (34-3/4 in o.c.) using designated fastener (section 11.3).
4. SWISSPEARL cement composite panels are fastened to the vertical hats channels (at each end) and vertical Zee channels spaced between the hat channels (Drawing Page 25). These are fastened to each support nominally 14.5 in o.c in the horizontal direction, and nominally 8 in o.c. in the vertical direction.

## 11.0 Components

### 11.1 Panel:

11.1.1 Material	Cement reinforced composite
11.1.2 Thickness:	5/16 in (8 mm)

### 11.2 Fasteners:

Fastens the horizontal Zee's to the Steel Stud support system

11.2.1 Type:	Self Tapping Screw
11.2.2 Size :	#10 x 2 in
11.2.3 Number per Intersection:	2
11.2.4 Head:	Hex head
11.2.5 Corrosion Resistance:	Stainless Steel

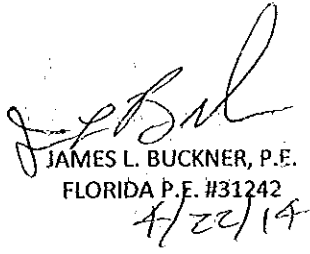
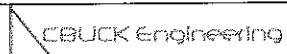
### 11.3 Fasteners:

Fastens the vertical Hats and Zee's to the horizontal Zee's.

Fastens the cement composite panel to the steel vertical Hats and Zee's.

11.3.1 Manufacturer:	SFS
11.3.2 Type:	Rivets
11.3.3 Designation:	SSO-D15
11.3.4 Size:	4.0 x 18 mm
11.3.5 Corrosion Resistance:	Stainless Steel
11.3.6 Vertical fastener spacing:	8 in o.c. Maximum
11.3.7 Horizontal fastener spacing:	16 in o.c. Maximum

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 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM LIMITS OF USE, IDENTIFICATION AND INSTALLATION INSTRUCTIONS		
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR: Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04/09/09
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#### 11.4 Horizontal Supports

Zee channel that is fastened to the steel support. The Vertical Hat and Zee channels are attached to this.

11.4.1 Type:	Zee Channel.
11.4.2 Width:	3-1/8 in.
11.4.3 Height:	1-9/16 in.
11.4.4 Thickness :	16 Gauge
11.4.5 Material:	Steel
11.4.6 Corrosion Resistance:	Galvanized G90
11.4.7 Spacing:	34-3/4 in o.c.

#### 11.5 Vertical Supports:

Hat channel that is fastened to the Horizontal Zee channel. The cement composite panels are fastened to this support.

11.5.1 Type:	Hat Channel
11.5.2 Width:	5-1/2 in
11.5.3 Height:	1-1/2 in
11.5.4 Thickness:	16 Gauge
11.5.5 Material:	Steel
11.5.6 Corrosion Resistance:	Galvanized G90
11.5.7 Spacing:	9 ft 11-5/8 in o.c. (at panel joints)

Zee channel that is fastened to the Horizontal Zee channel. The cement composite panels are fastened to this support.

11.5.8 Type:	Zee Channel
11.5.9 Width:	3-1/8 in.
11.5.10 Height:	1-9/16 in.
11.5.11 Thickness:	16 Gauge
11.5.12 Material:	Steel
11.5.13 Corrosion Resistance:	Galvanized G90
11.5.14 Spacing:	14-1/2 in o.c.

#### 11.6 Ventilation profile (Optional):

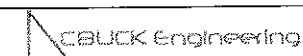
Perforated L piece that goes in multiple edge locations.

11.6.1 Length:	98.5 in.
11.6.2 Width:	3-1/8 in.
11.6.3 Height:	1-9/16 in.
11.6.4 Thickness:	0.027 in
11.6.5 Material:	Aluminum

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#### TITLE: SWISSPEARL FAÇADE SYSTEM

#### MATERIAL SPECIFICATIONS AND COMPONENT DESCRIPTION

  
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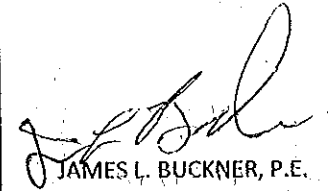
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4/22/14

### 11.7 L-Flashing (Optional):

Perforated L piece that goes in multiple edge locations.

11.7.1 Length:	98.5 in.
11.7.2 Width:	3-1/8 in.
11.7.3 Height:	1-9/16 in.
11.7.4 Thickness:	0.027 in
11.7.5 Material:	Stainless Steel

### 12.0 Reference Data:

#### 12.1 Structural Performance

12.1.1 TAS 201, 202 & 203, Large Missile Impact Test, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test. & Cyclic Wind Pressure Loading, respectively.

By: Architectural Testing, Inc.

Report No.: 77956.01-109-18

Dated: 4/7/08 Revised Date: 12/08/08

#### 12.2 Fire Performance

12.2.1 ASTM E-84 & ASTM E-136 Flame Spread Index /Smoke Density

By: Architectural Testing, Inc. (SGS U.S.)

Report No.: 170982

Dated: 11/20/02

#### 12.3 Material properties

12.3.1 ASTM C 1185-95 Test Specification for Non-Asbestos fiber-Cement Flat Sheet, roofing and Siding Shingles, and Clapboards

By: Architectural Testing, Inc.


Report No.: 01.42233.01

Dated: 11/20/02

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#### MATERIAL SPECIFICATIONS AND COMPONENT DESCRIPTION

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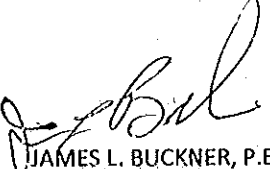
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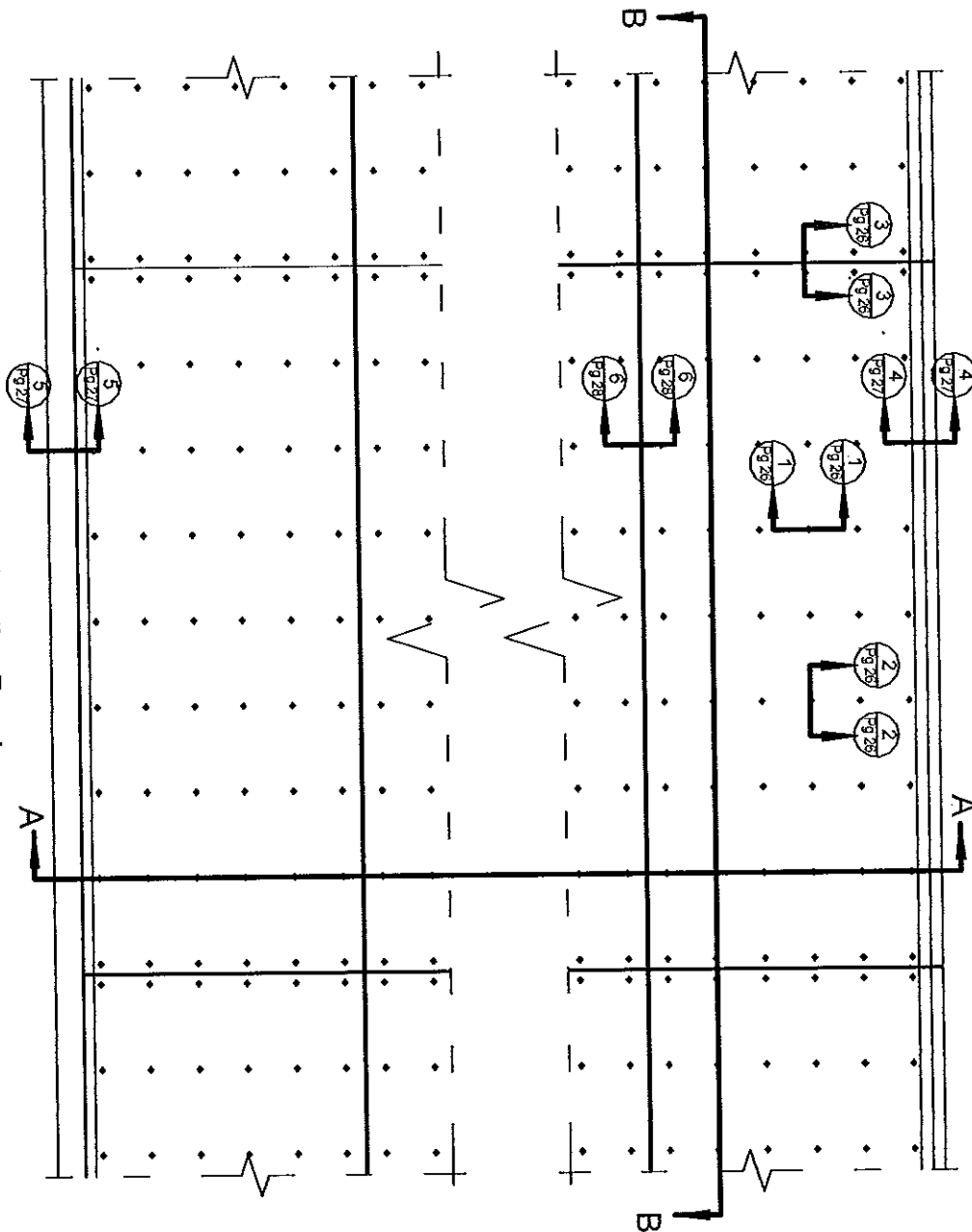
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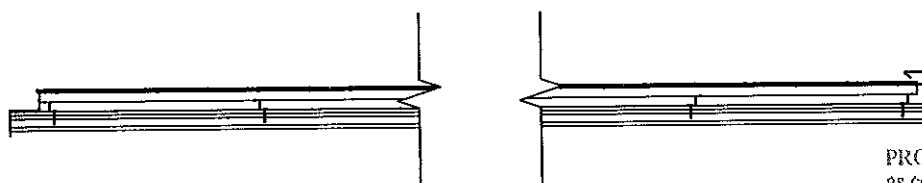
# Swisspearl Panel System

Outside Elevation Drawing



B-B Horizontal Section

A-A Vertical Section



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as complying with the Florida  
Building Code  
Acceptance No. 14-0605.07  
Expiration Date 04/22/2019  
By: *[Signature]*  
Miami Dade Product Control

TITLE: SWISSPEARL FAÇADE SYSTEM  
ELEVATION

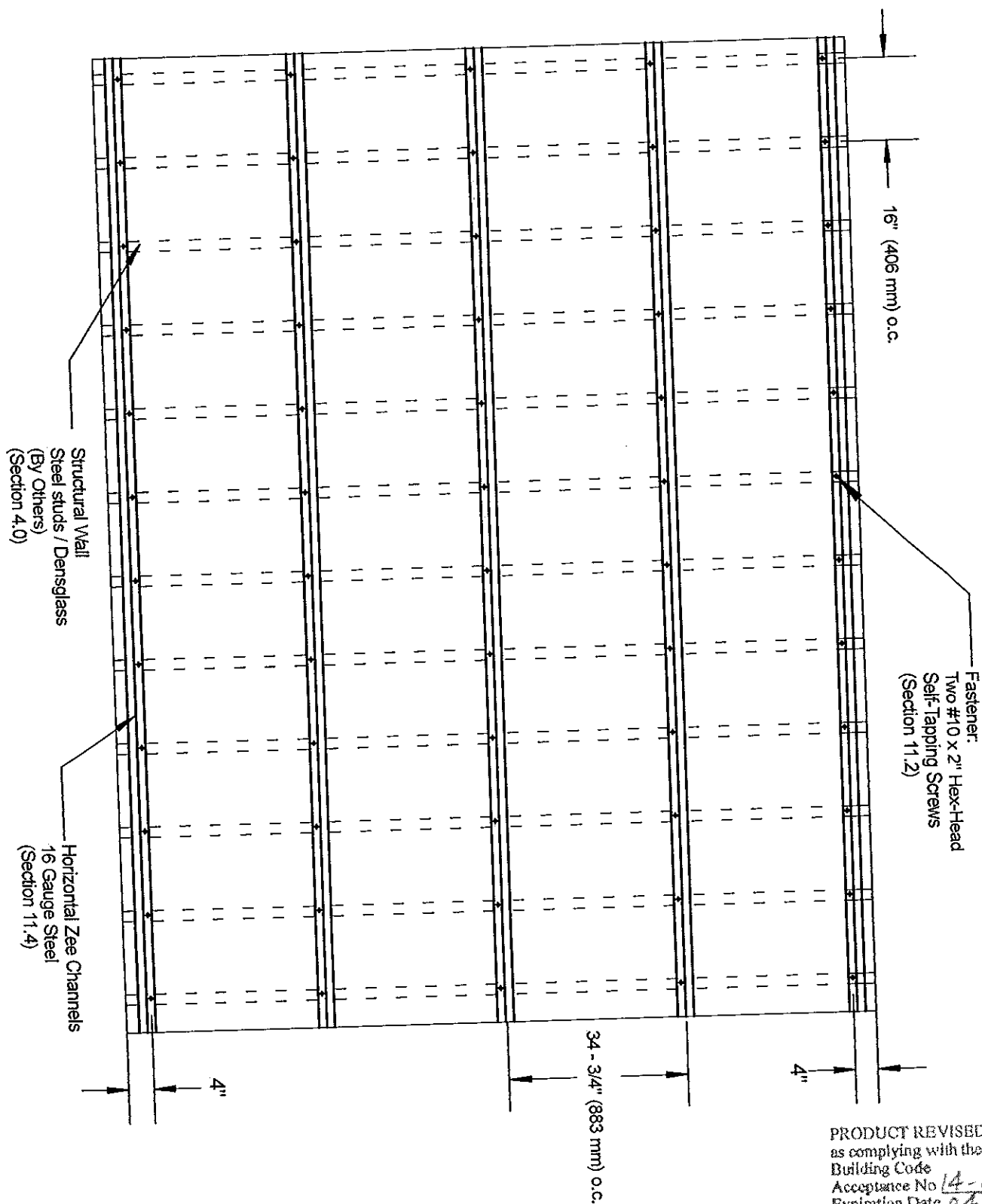
CBUCK Engineering  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

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REPORT #: C08-258-S(1)  
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*[Signature]*  
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FLORIDA P.E. #31242  
4/22/19





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 Miami Data Product Control

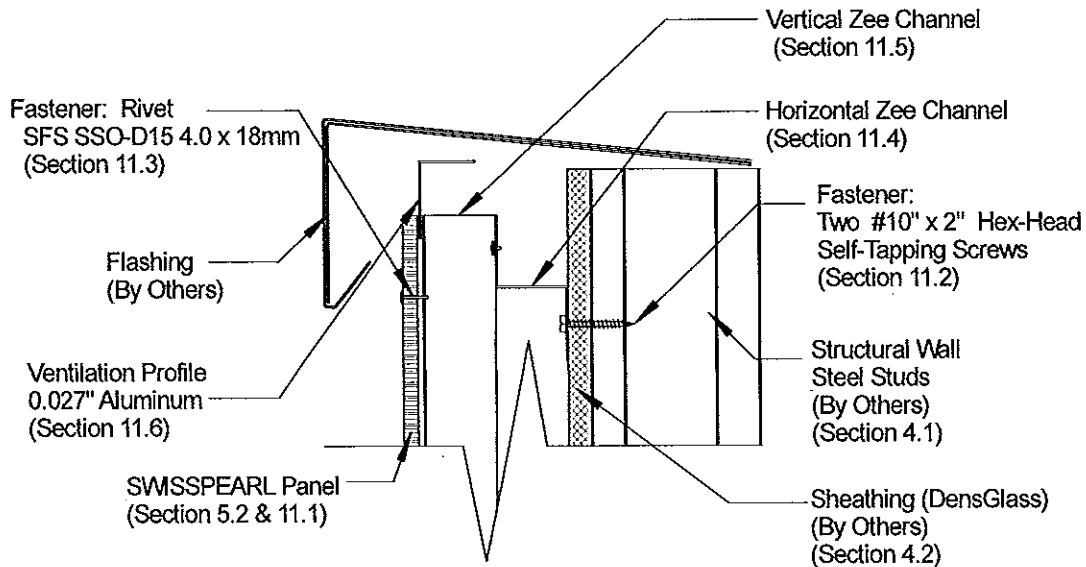
[Signature]  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 4/22/14

**TITLE: SWISSPEARL FAÇADE SYSTEM  
 HORIZONTAL ZEE'S ATTACHED TO STEEL STUD SUPPORT**

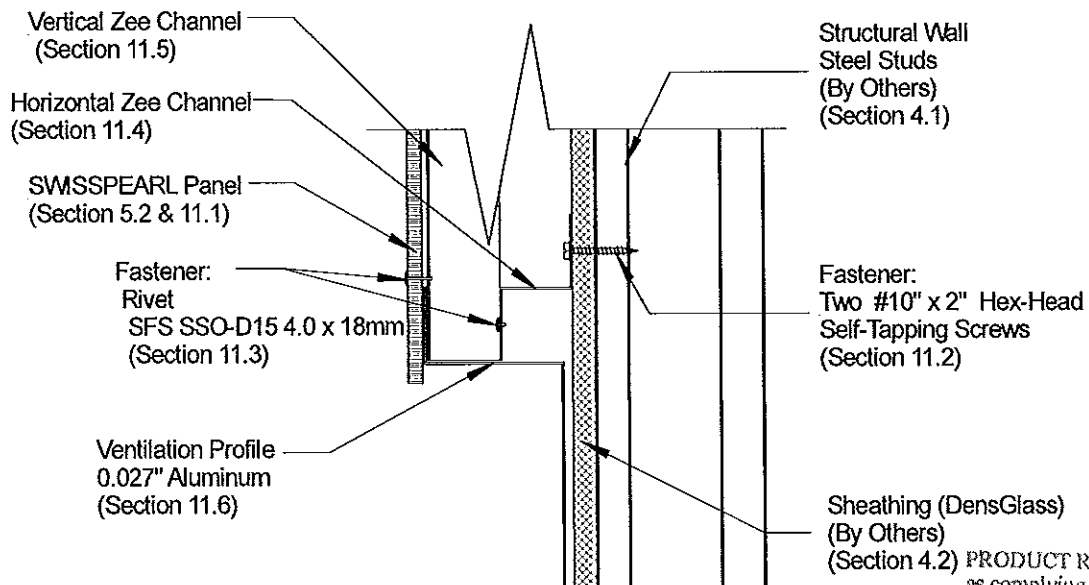
**CBUCK Engineering**  
 CBUCK, Inc. COA #8064  
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Typical Top Termination Section  
(Section 4)



Typical Bottom Termination Section  
(Section 5)

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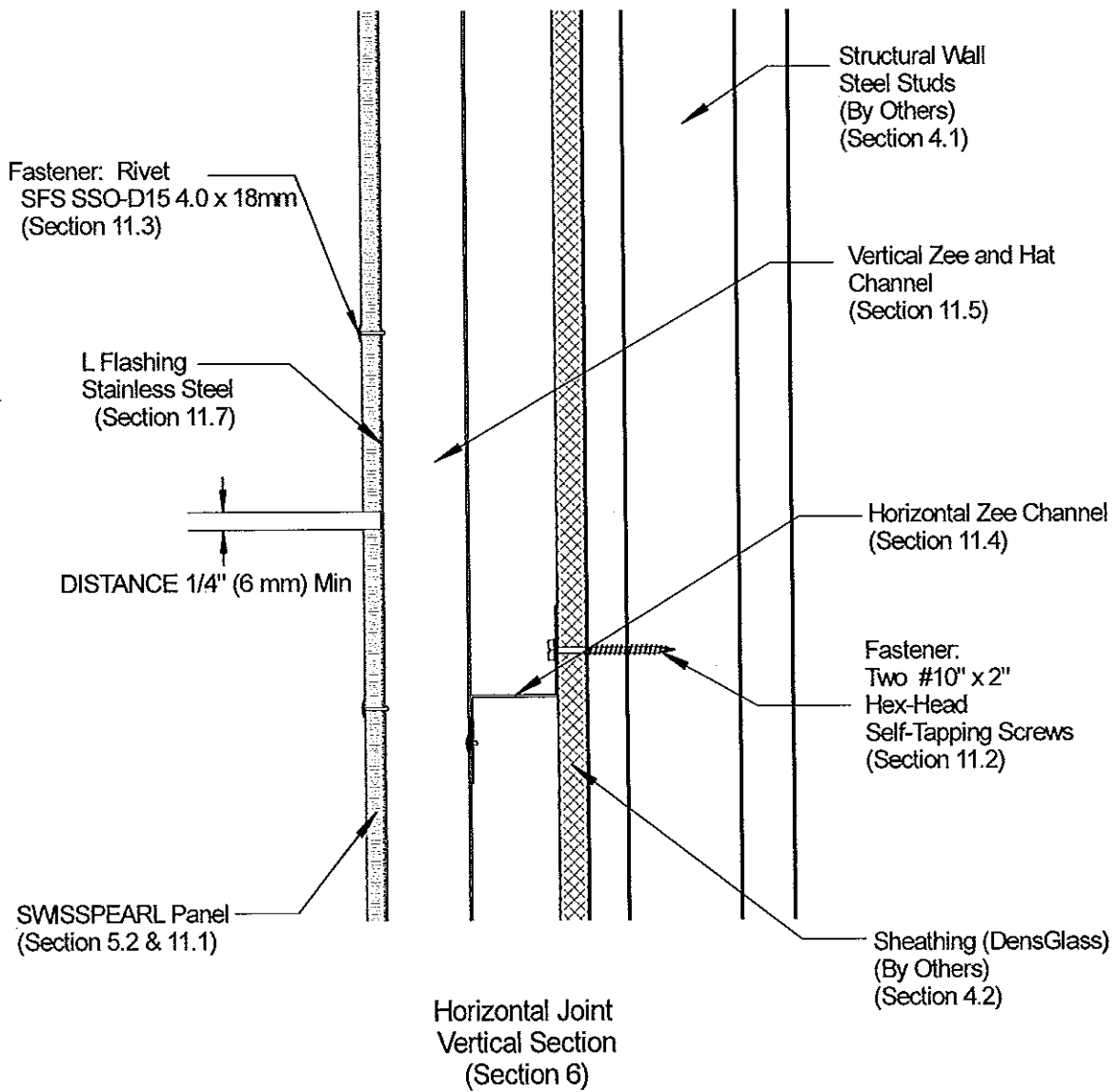
[Signature]  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
4/22/19

TITLE: SWISSPEARL FAÇADE SYSTEM  
BASE AND TOP DETAILS TO STEEL STUD SUPPORTS

[Signature] CBUCK Engineering  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

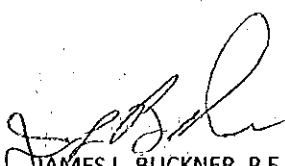
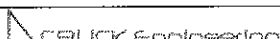
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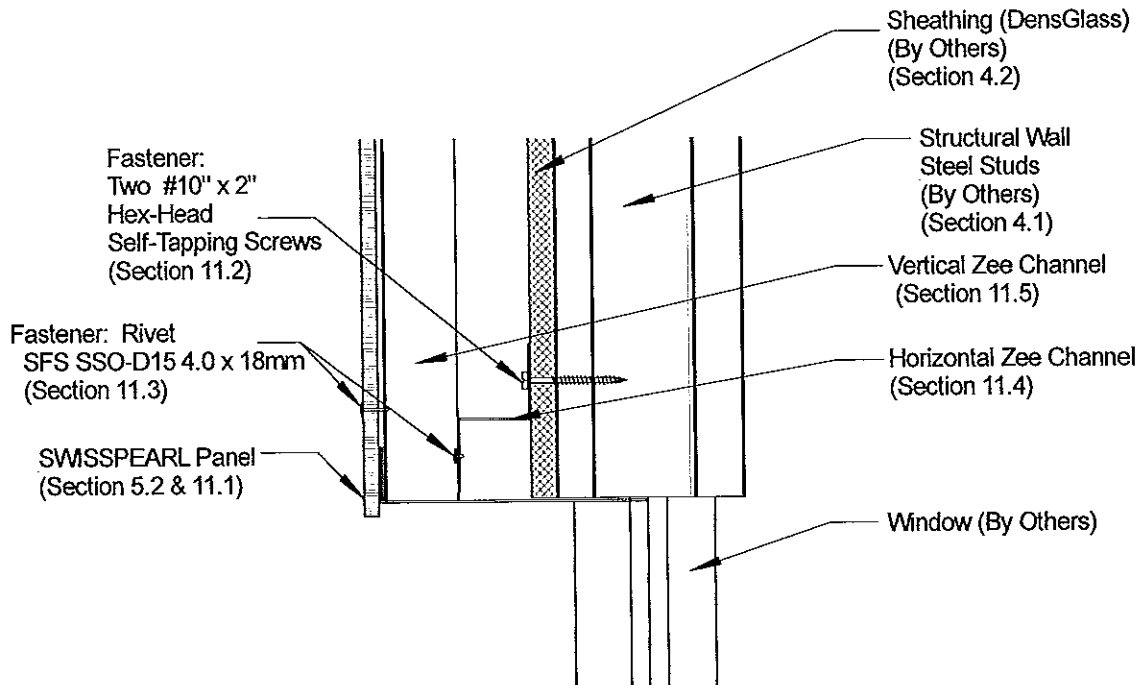
DATE: 04/09/09  
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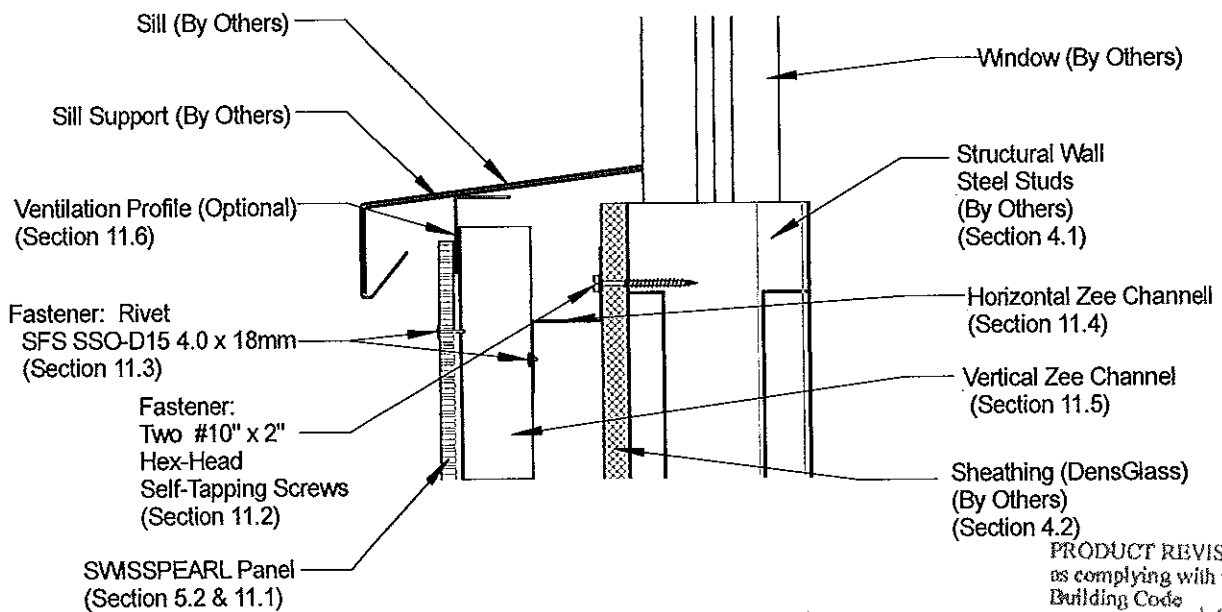
SIDE SECTION VIEW

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 By [Signature]  
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 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 4/22/14	TITLE: SWISSPEARL FAÇADE SYSTEM HORIZONTAL JOINT DETAIL			
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	DISTRIBUTOR:  Cladding Corp. 215 South Highway 100, Suite 214 Solana Beach, CA 92037	DATE: 04 / 09 / 09	
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Typical Window Head Section



Typical Window Sill Section

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Miami Dade Product Control

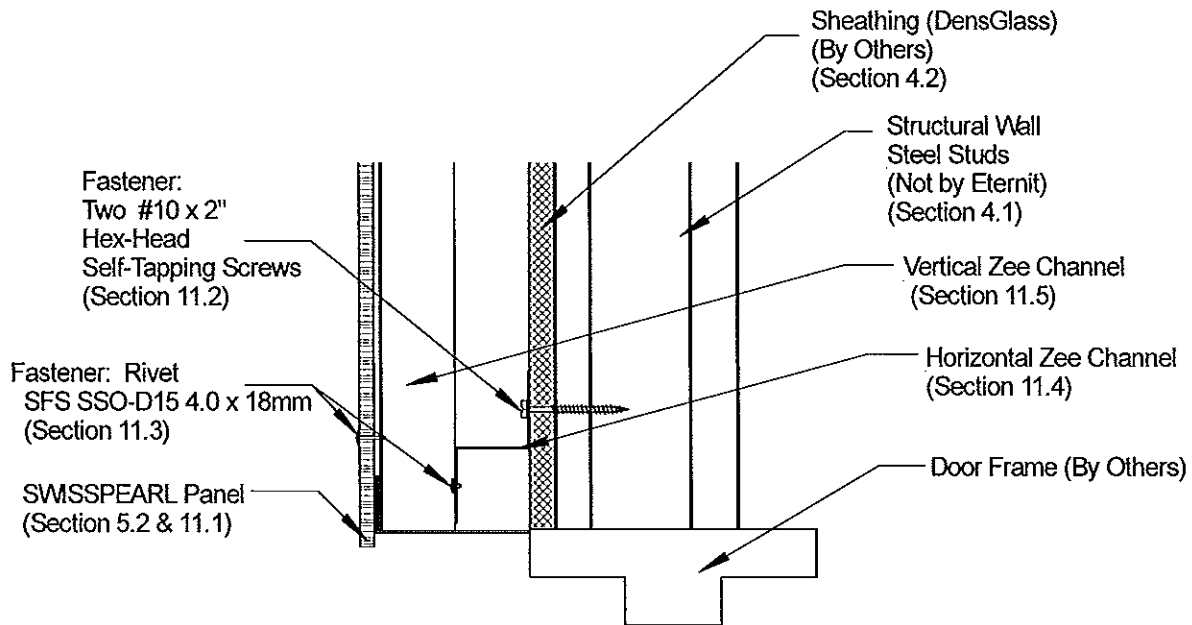
TITLE: SWISSPEARL FAÇADE SYSTEM  
WINDOW, SEAL AND HEAD DETAILS

*[Signature]*  
CBUCK Engineering  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

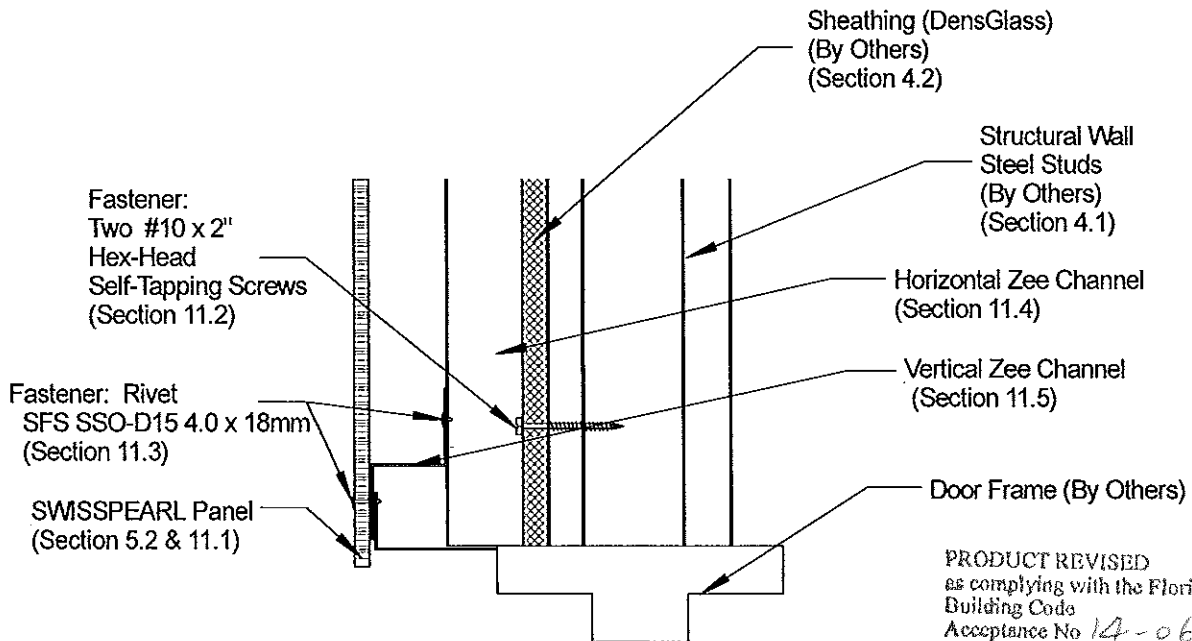
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*[Signature]*  
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FLORIDA P.E. #31242  
4/22/14



Typical Door Head Section



Typical Door Jam Section

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Miami Dade Product Control

*[Signature]*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
1/22/14

TITLE: SWISSPEARL FAÇADE SYSTEM  
DOOR HEAD AND JAMB DETAILS

*[CBUCK Engineering Logo]*  
CBUCK Engineering  
CBUCK, Inc. COA #8064  
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W. Palm Beach, FL 33403  
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